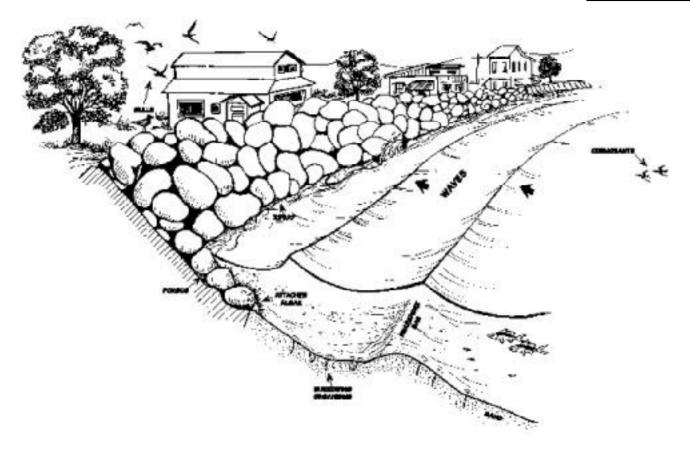
Riprap

INTERTIDAL



Riprap

Description

- Riprap structures are composed of cobble- to boulder-sized blocks of granite, limestone, concrete, or other materials.
- Riprap structures are used as revetment and groins for shoreline protection, and as breakwaters and jetties around inlets and marinas.
- Attached biota are generally sparse on exposed riprap.
- They are common in highly developed waterfront areas.

Predicted Oil Behavior

- Deep penetration of oil between the blocks is likely.
- Oil adheres readily to the rough surfaces of the blocks.
- Uncleaned oil can cause chronic leaching until the oil hardens.

Response Considerations

- When the oil is fresh and liquid, high pressure spraying and/or water flooding may be effective if all liberated oil is recovered.
- · Heavy and weathered oils are more difficult to remove, requiring scraping and high-pressure, hot-water flushing.

Riprap INTERTIDAL Oil Category Response Method I Π Ш ΙV ν Natural Recovery В В В Α Α Oil Category Descriptions Barriers/Berms I - Gasoline products Manual Oil Removal/Cleaning II - Diesel-like products and light crudes Α Α Α Α III - Medium grade crudes and Mechanical Oil Removal B C intermediate products Sorbents Α Α В В IV - Heavy crudes and residual products V - Non-floating oil products Vacuum Α Α Α Debris Removal Α Α Α Α Sediment Reworking/Tilling The following categories are used Vegetation Cutting/Removal to compare the relative environmen-Flooding (deluge) B С Α Α tal impact of each response method in the specific environment and Low-pressure, Ambient Water Flushing Α В C Α habitat for each oil type. The codes High-pressure, Ambient Water Flushing Α Α В В in each table mean: Low-pressure, Hot Water Flushing C C C A = The least adverse habitat impact. High-pressure, Hot Water Flushing С C C B = Some adverse habitat impact. Steam Cleaning D D D C = Significant adverse habitat impact. Sand Blasting D D D D = The most adverse habitat impact. Solidifiers В В I = Insufficient information - impact or Shoreline Cleaning Agents В В В effectiveness of the method could Nutrient Enrichment В В not be evaluated. Α Α Natural Microbe Seeding Ι -= Not applicable.

In-situ Burning

Consult the Environmental Considerations for Marine Oil Spill Response document referenced on page 5 before using this table.

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